

TABLE XI-8

Summary of Costs and Exposure Risks for Alternative 2-Subcase 3:
Glass Disposed of in SRP Bedrock and Decontaminated Salt Cake Stored
in Onsite Underground Waste Tanks

<i>Event</i>	<i>Population Dose for Maximum Year, man-rem</i>	<i>Probability, events/year</i>	<i>Maximum Risk, man-rem/year</i>
Removal From Tanks			
Routine Releases	1.4	1.0	1.4
Sludge Spill	1.5 x 10 ¹	5.0 x 10 ⁻²	7.5 x 10 ⁻¹
Spill at Inlet	3.7 x 10 ¹	5.0 x 10 ⁻²	1.9
Tornado	5.4 x 10 ¹	6.0 x 10 ⁻⁴	3.2 x 10 ⁻²
Spill	1.1 x 10 ³	5.0 x 10 ⁻³	5.4
Explosion	3.0 x 10 ⁴	1.0 x 10 ⁻⁴	3.0
Sabotage	3.5 x 10 ⁵	1.0 x 10 ⁻⁵	3.5
Below-Ground Leaks	1.7 x 10 ⁵	1.0 x 10 ⁻⁵	1.7
Processing			
Routine Releases	3.0	1.0	3.0
Process Incidents	4.2 x 10 ⁻¹	1.0	4.2 x 10 ⁻¹
Sabotage	8.9 x 10 ⁴	1.0 x 10 ⁻⁵	8.9 x 10 ⁻¹
Airplane Crash	3.1 x 10 ²	7.0 x 10 ⁻⁸	2.2 x 10 ⁻⁵
Transportation	Not Applicable		
Storage			
Expected Releases	1.3 x 10 ²	1.0	1.3 x 10 ²
Time-Integrated Risk, man-rem (300 yr)		3.4 x 10 ²	
Risk Value of \$1000/man-rem, millions		\$0.34	
Budgetary Cost, millions		\$3610	
Total Cost, millions		\$3610.3	
Incremental Cost-Risk, dollars/man-rem		\$129,000	
Time-Integrated Risk, man-rem (10,000 yr)		3.4 x 10 ²	
Natural Background Exposure, man-rem (10,000 yr)		1.0 x 10 ¹⁰	
Possible Waste Management Health Effects		0.07	
Health Effects from Natural Background		2,000,000	